

Claims

- Sub. GI 7
1. Loose particulate material for use in waste water treatment, said material characterised by granules of plastics material carrying weighting material so that the particles have an average density of approximately 1.0g/cc, at least a proportion of said weighting material being carried within the granules, and the surfaces of the granules being provided with concavities to provide a habitat for microorganisms effective in waste water treatment.
 2. Loose particulate material according to claim 1, in which the weighting material is incorporated substantially wholly within the granules such that the weighting material is substantially not exposed at the surfaces of the granules.
 3. Loose particulate material according to claim 1 or claim 2 in which the weighting material is salt grains.
 4. Loose particulate material according to claim 1, in which the weighting material is incorporated within the granules and adhered to the surfaces of the granules.
 5. Loose particulate material according to claim 1 or claim 4, in which the weighting material is sand grains.
 6. Loose particulate material according to any preceding claim, in which the weighting material is a mixture of sand and salt grains.

Sub. 92 → 7. A method of manufacture of loose particulate material for use in waste water treatment, said method comprising incorporating a weighting material within granules of plastics material so that at least a proportion of the weighting material is carried within the granules and the particles have an average density of approximately 1.0g/cc, and contacting the granules with grains of a soluble substance, at an elevated temperature, to coat the granules with the soluble substance grains, and subsequently dissolving the soluble substance grains from the coating to provide the surfaces of the granules with concavities to serve as a habitat for microorganisms effective in waste water treatment.

8. A method according to claim 7, in which the soluble substance grains are salt grains.

Sub. 93 → 9. A waste water treatment method characterised by charging a treatment vessel with waste water and loose particulate material according to any one of claims 1 to 6, and aerating the waste water by means of aerators.

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add B1 →